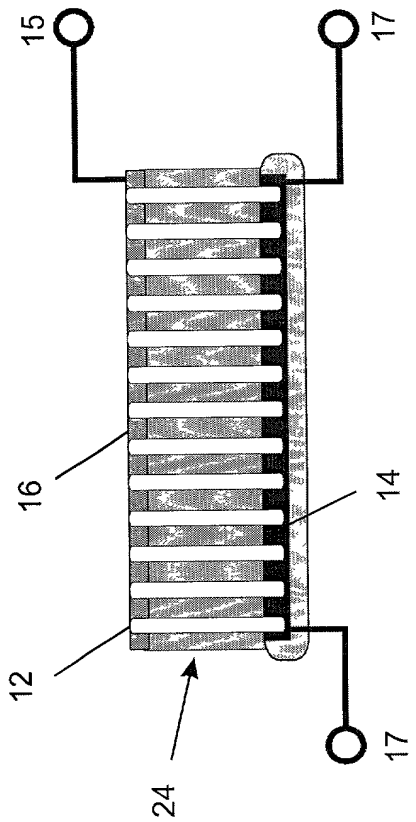
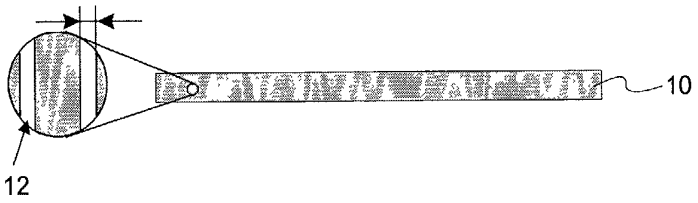


FIG. 1

Fig. 2a



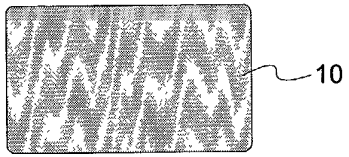
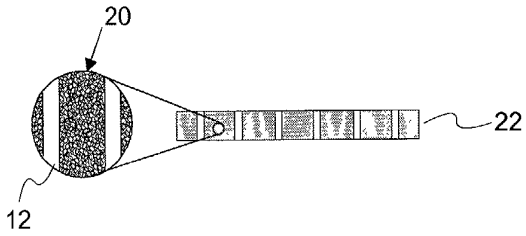


Fig. 3a

Fig. 2b



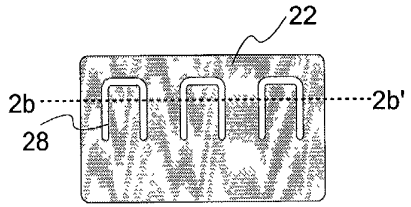
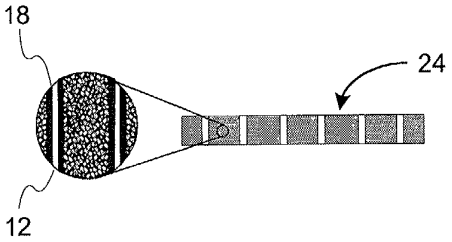


Fig. 3b

Fig. 2c



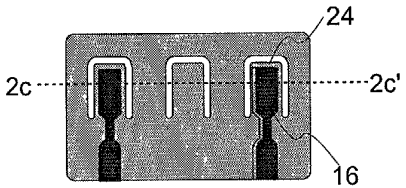


Fig. 3c

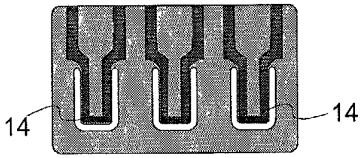
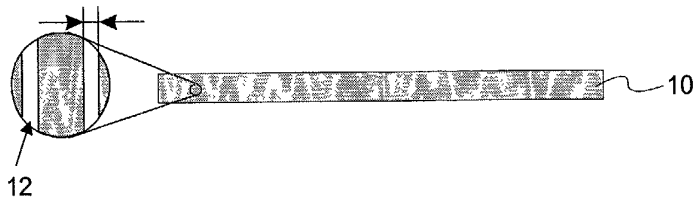


Fig. 3d

Fig. 4a



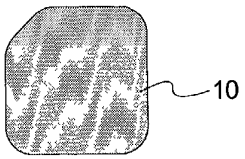


Fig. 5a

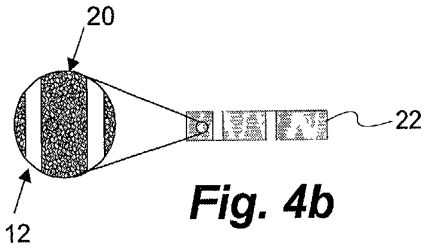


Fig. 4b

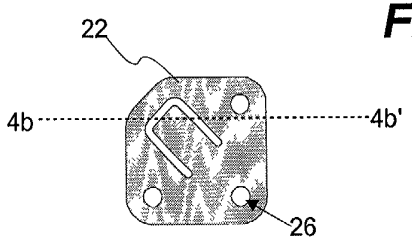


Fig. 5b

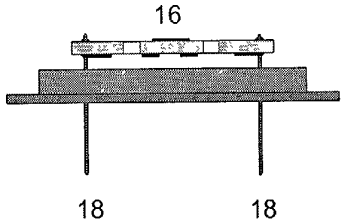


Fig. 6

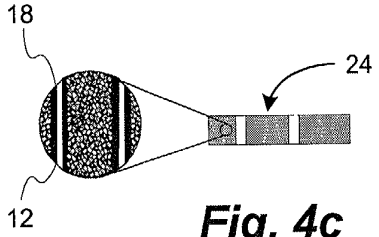


Fig. 4c

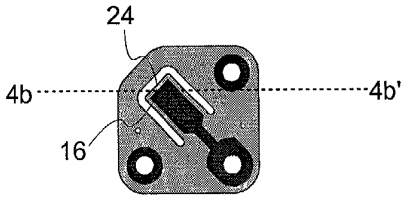


Fig. 5c

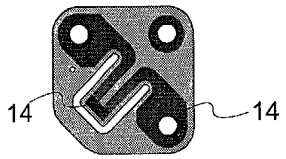


Fig. 5d

FIG. 7

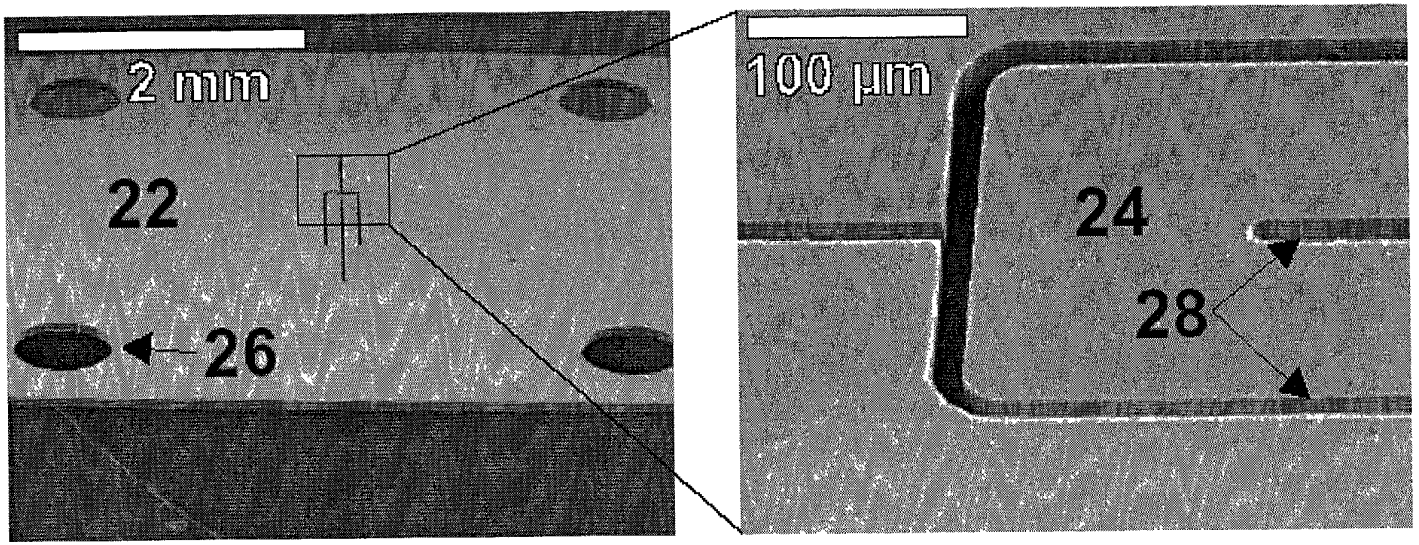
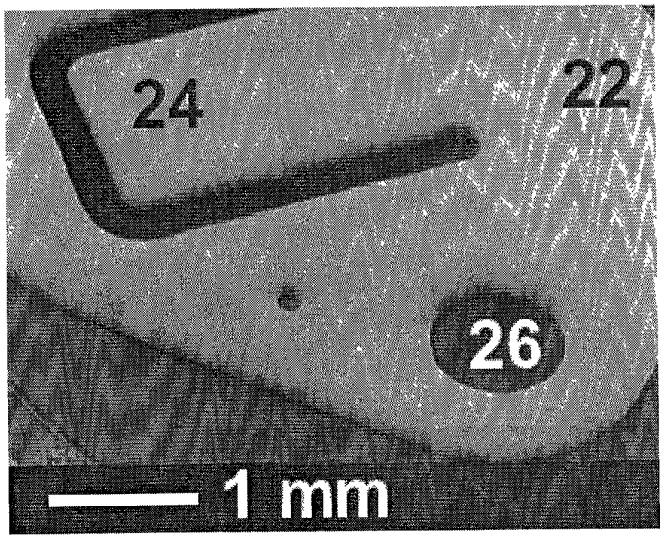


FIG. 8



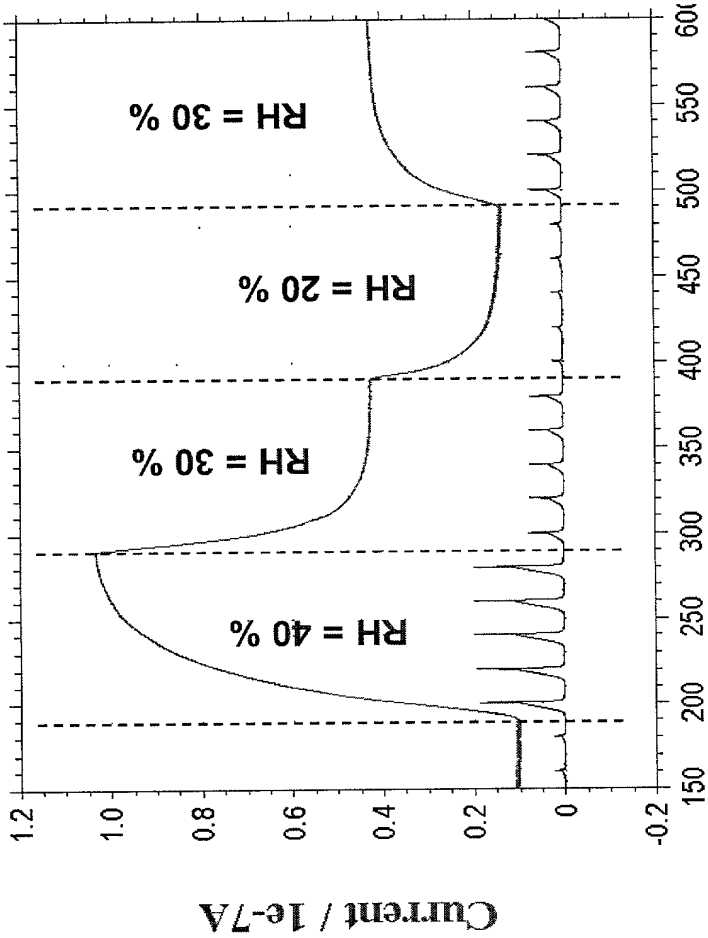

RH = 40 %
RH = 30 %
RH = 20 %
RH = 30 %
Current / 1e-7A
Time / sec
1.2
1.0
0.8
0.6
0.4
0.2
0
-0.2
150
200
250
300
350
400
450
500
550
600

FIG. 9

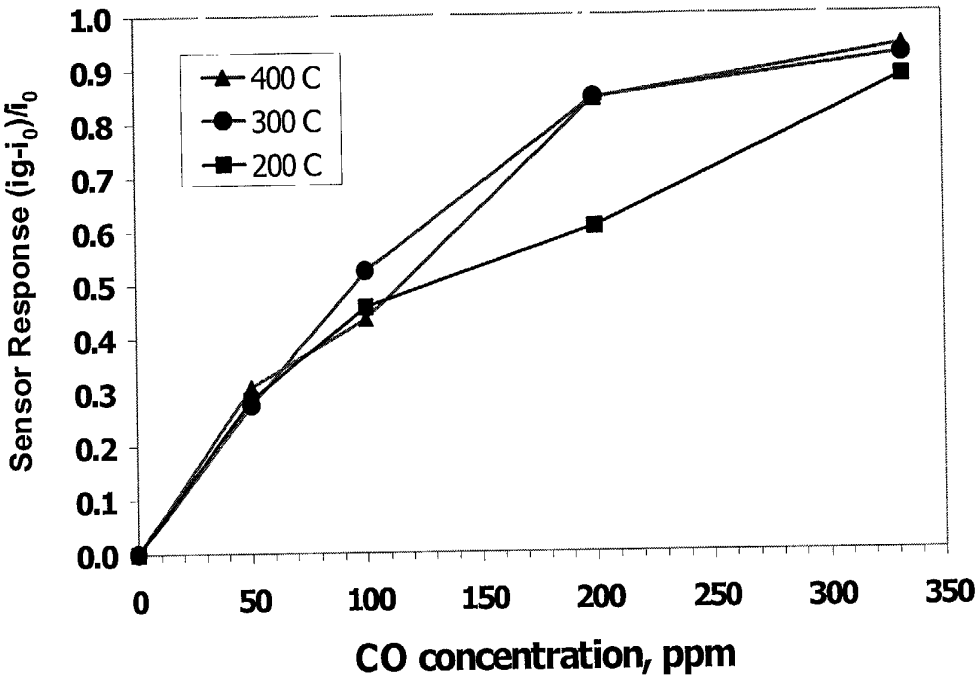

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Sensor Response (ig-i0)/i0
400 C
300 C
200 C
0
50
100
150
200
250
300
350
CO concentration, ppm

FIG. 10

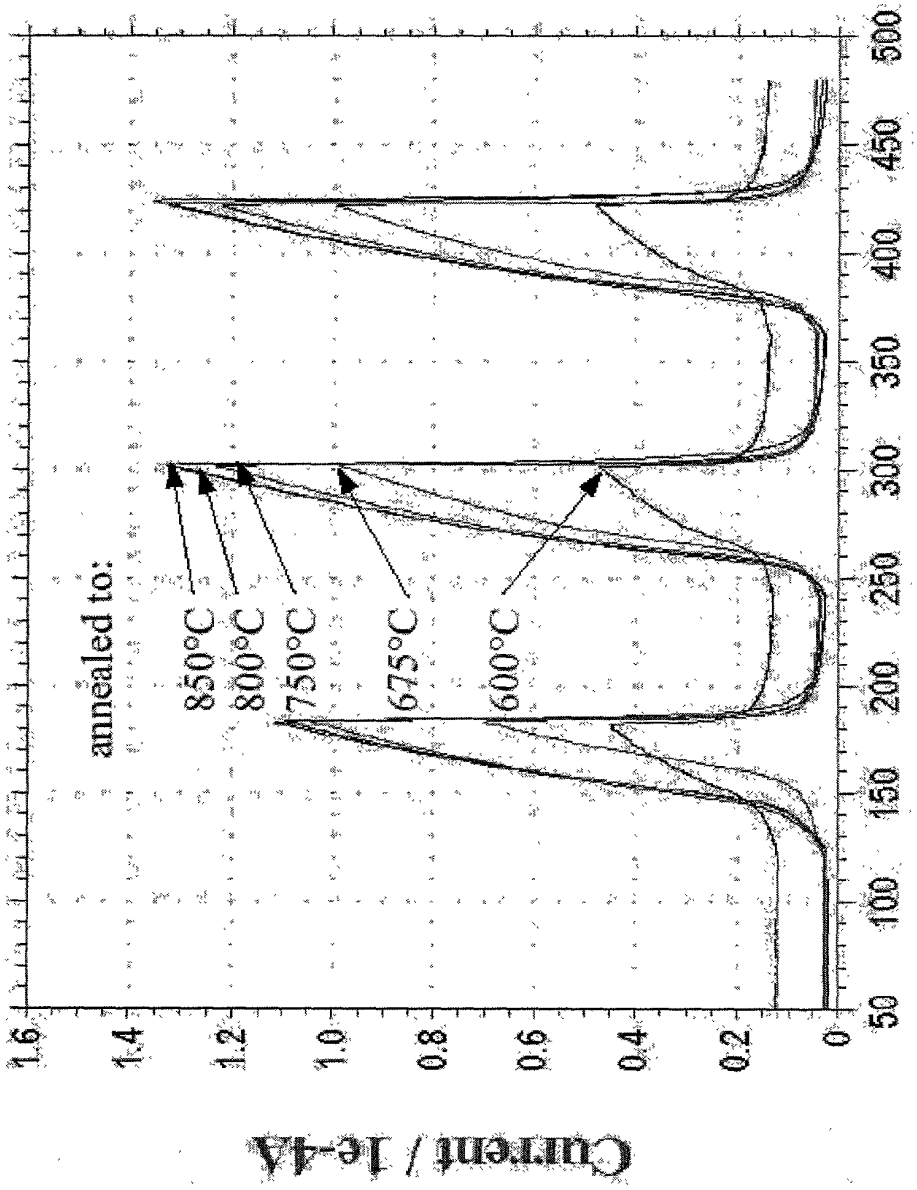

annealed to:
850°C
800°C
750°C
675°C
600°C
Current / 1e-4A
Time / sec
0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
50
100
150
200
250
300
350
400
450
500

FIG. 11